

### ABSTRACT OF THE DISCLOSURE

A method and apparatus are provided for alarming upon occurrence of or expected occurrence of cell secession of a mobile station in a mobile communication system. A base station transceiver subsystem (BTS) receives power-related information transmitted from a mobile station, and analyzes the power-related information to determine whether a mobile station has seceded from a corresponding cell. The BTS transmits cell secession alarm information to a cell-seceded mobile station to enable the cell-seceded mobile station to perform a cell secession alarm operation to advise a subscriber of the cell-seceded mobile station of a possible call drop.

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